

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 26, 2004, 01:42:25 ; Search time 137 Seconds
(without alignments)
1492.378 Million cell updates/sec

Title: US-09-805-020-72

Perfect score: 3505
Sequence: 1 MSFPLRIGLSNFDGGSQSC.....LVSFLFLVLVNLHVANDYY 648

Scoring table: BLOSUM62
Gapcp 10.0 , Gapext 0.5

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPREMBL_25:*

1: sp_archaea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_micr:*

8: sp_organelle:*

9: sp_plage:*

10: sp_plant:*

11: sp_rodont:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_rvirus:*

16: sp_bacteriap:*

17: sp_archap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

17	1160	33.1	670	13	Q8JFZ9	Q8Jfz9 fugu rubrip
18	1145	32.7	756	5	Q61224	Q61224 scypha raph
19	1144.5	32.6	680	5	P90980	P90980 caenorhabdi
20	1143.5	32.6	680	5	Q8mQ88	Q8mQ88 caenorhabdi
21	1144.5	32.6	682	5	Q8mQ87	Q8mQ87 caenorhabdi
22	1144.5	32.6	936	5	P0981	P0981 caenorhabdi
23	1144.5	32.6	936	5	Q9024	Q9024 caenorhabdi
24	1129	32.2	668	13	Q7T2C5	Q7T2C5 brachydanio
25	1097	31.3	670	5	Q01715	Q01715 hydra attenuata
26	1075.5	30.7	674	5	Q01716	Q01716 hydra attenuata
27	1070.5	30.5	554	5	Q5178	Q5178 droophila
28	1067	30.4	673	5	Q52567	Q52567 suberites d
29	998	28.5	677	5	Q6997	Q6997 sedia cydo
30	975	27.8	685	5	Q76850	Q76850 calliphora
31	943.5	27.1	1035	3	Q862V2	Q862V2 pichia past
32	892	25.4	1161	3	Q8J213	Q8J213 kluveromyces
33	885	25.4	1161	3	Q9H10	Q9H10 blunaria grisea
34	883	25.2	1194	3	Q97792	Q97792 sporothrix
35	871.5	24.9	1170	3	Q97WJ5	Q97WJ5 bottysia ci
36	860.5	24.5	1185	3	Q873Y9	Q873Y9 leptosphaera
37	857	24.4	1136	3	Q9Hgk8	Q9Hgk8 tuber boehmeriae
38	853	24.3	1182	3	Q977C1	Q977C1 magnaporthe
39	850	24.2	1197	5	Q86492	Q86492 rhodocylus
40	848.5	24.2	447	5	Q86M17	Q86M17 branchiostoma
41	845	24.1	991	3	Q86VF6	Q86VF6 tuber magna
42	842	22.1	442	13	Q80115	Q80115 scyliorhinus
43	739.5	21.1	606	5	Q87V82	Q87V82 drosophila
44	739.5	21.1	606	5	Q9Gz3	Q9Gz3 drosophila
45	739.5	21.1	606	5	Q8mt38	Q8mt38 drosophila

ALIGNMENTS

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPREMBL_25:*

1: sp_archaea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_micr:*

8: sp_organelle:*

9: sp_plage:*

10: sp_plant:*

11: sp_rodont:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_rvirus:*

16: sp_bacteriap:*

17: sp_archap:*

RESULT 1

Q8CAV6

PRELIMINARY

PRT;

571 AA.

ID

Q8CAV6

AC

Q8CAV6;

DT

01-MAR-2003

(TREMBL)

23,

Last sequence update

DE

Protein kinase C

GN

A130055A12Rik

OS

Mus musculus (Mouse)

OC

Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Olfactory; Eutheria; Rodentia; Muridae; Murinae; Mus; NCBI_TaxID:10997; [1]

RN

SEQUENCE FROM N.A.

RP

SPRAME-C57BL/6J; TISSUE-thymus;

RK

MEDLINE=22354683; PubMed=12466851;

RA

The RIKEN Genome Exploration Research Group Phase I & II Team;

RT

Analyses of the mouse transcriptome based on functional annotation of

RT

60,770 full-length cDNAs;

RL

Nature

420:563-573 (2002).

DR

EMBL; MGI; 2A42365; BAC09431;

MGD; MGI; 2A42365; A130055A12Rik.

DR

GO; GO:000524; P:ATP binding; IEA.

DR

GO; GO:0005489; P:protein transport; IEA.

DR

GO; GO:000674; P:protein serine/threonine kinase activity; IEA.

DR

GO; GO:0004713; P:protein-tyrosine kinase activity; IEA.

DR

GO; GO:0006118; P:protein transport; IEA.

DR

GO; GO:0007242; P:intracellular signaling cascade; IEA.

DR

GO; GO:0004648; P:protein amino acid phosphorylation; IEA.

DR

GO; GO:0008973; C2 Calb.

DR

InterPro; IPR000345; CYC C heme BS.

DR

InterPro; IPR00219; DAG_Pe-Bind.

DR

InterPro; IPR000719; Prot kinase.

DR

InterPro; IPR002290; Ser_Thr_Pkinase.

DR

InterPro; IPR008271; Ser_Thr_Pkinase.

DR

InterPro; IPR001245; Tyr_Pkinase.

DR

InterPro; IPR00130; DAG_Pe-Bind; 2.

Q8Jfz9	fugu rubrip
Q61224	scypha raph
P90980	caenorhabdi
Q8mQ88	caenorhabdi
Q8mQ87	caenorhabdi
Q9024	caenorhabdi
Q7T2C5	brachydanio
Q01715	hydra attenuata
Q01716	hydra attenuata
Q95t78	droophila
Q62567	suberites d
Q96997	seadia cydno
Q76850	calliphora
Q9hv5	leptosphaera
Q9hgk8	tuber boehmeriae
Q9y7cl	magaporthe
Q86ml7	branchiostoma
Q96vf6	tuber magna
Q80115	scyliorhinus
Q9v782	droophila
Q9gzs3	drosophila
Q8mt38	drosophila

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OM protein - protein search, using sw model										
Run on:	March 25, 2004, 23:31:44 ; Search time 140 Seconds (Without alignments)									
1307.791 Million cell updates/sec										
Title:	US-09-805-020-72									
Perfect score:	3506									
Sequence:	1 MSPELRIGLNSNFDCCGSCQSC... LVSFLFLLVSNLHVANNDY 648									
Scoring table:	BLOSUM62									
Gapop 10.0 , Gapext 0.5	Gapop 10.0 , Gapext 0.5									
Searched:	1586107 seqs, 282547505 residues									
Total number of hits satisfying chosen parameters:	1586107									
Minimum DB seq length:	0									
Maximum DB seq length:	200000000									
Post-processing: Minimum Match 0%	Maximum Match 100% summaries									
Database :	A_Geneseq_29Jan04:*									
1: geneseq1980s:*										
2: geneseq1990s:*										
3: geneseq2000s:*										
4: geneseq2001a:*										
5: geneseq2002a:*										
6: geneseq2003a:*										
7: geneseq2003bs:*										
8: geneseq2004a:*										
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.										
Result No.	Score	Query	Length	DB	ID	Description				
1	3506	100.0	648	5	ABG79705	Abg79705 Tumour in	RESULT 1			
2	3344	95.4	615	5	ABG79678	Abg79678 Tumour in	ID	ABG79705	standard; protein;	protein; 648 AA.
3	3337	95.5	705	4	ABG62870	Abg62870 Amino acid	XX			
4	3337	95.2	705	6	ABP56907	Abp56907 Human pro	XX			
5	3327	94.9	706	4	ABB06448	Abb06448 Human pro	XX			
6	3327	94.9	706	6	ABR3356	Abbr3356 Human pro	XX			
7	2057.5	58.7	673	7	ADE57523	Ade57523 Rat Prote	XX			
8	2057.5	58.7	673	7	ADE57525	Ade57525 Rat Prote	XX			
9	2037.5	58.1	674	4	ABP8037	Abp8037 Human pro	XX			
10	1499	42.8	704	3	AYA91091	Aya91091 Human pro	XX			
11	1499	42.8	704	3	AYA9506	Aya9506 C. elegan	XX			
12	1343	38.3	567	3	AYA9533	Aya9533 Human pro	XX			
13	1443	38.3	567	3	ABD33667	Abd33667 Nematode	XX			
14	1298.5	37.0	737	5	ABD18490	Abd18490 Human lns	PT			
15	1298.5	37.0	737	7	ADE57469	Ade57469 Human pro	PT			
16	1298.5	37.0	737	7	ADE57541	Ade57541 Human pro	PT			
17	1298.5	37.0	737	7	ADE59345	Ade59345 Human pro	PT			
18	1298.5	37.0	737	7	ADE57533	Ade57533 Human pro	PT			
19	1298.5	37.0	737	7	ADE57537	Ade57537 Human pro	PT			
20	1298.5	37.0	737	7	ADE57529	Ade57529 Human pro	PT			
21	1296.5	37.0	737	6	ADAS0073	Adas0073 Mouse pro	CC			
22	1296.5	37.0	737	7	ARE9167	Are9167 Mouse pro	CC			
23	1290.5	36.8	737	7	ADE57531	Ade57531 Rat Prote	CC			
24	1290.5	36.8	737	7	ADE58352	Ade58352 Rat Prote	CC			
25	1290.5	36.8	737	7	ADAS7535	Adas7535 Rat Prote	CC			
26	1290.5	36.8	737	7	ADE57539	Ade57539 Rat Prote	XX			
27	1290.5	36.8	737	7	ADE57527	Ade57527 Rat Prote	XX			
28	1278.5	36.5	739	4	ABP5810	Abp5810 Drosophil	XX			
29	1251	35.7	682	5	AQ018491	Aq018491 Human ins	XX			
30	1241.5	35.4	683	7	ADC3771	Adc3771 Nuclear f	XX			
31	1199.5	34.2	522	7	ADC37369	Adc37369 Nuclear f	XX			
32	1170	33.4	672	3	AYA93259	Aya93259 cDNA eno	XX			
33	1170	33.4	672	4	AEE1341	Aee1341 Human pro	XX			
34	1170	33.4	681	4	ABG06337	Abg06337 Novel hum	XX			
35	1169	33.3	672	2	ABR9765	Abr9765 Type III	XX			
36	1169	33.3	672	2	ABR6726	Abr6726 Protein	XX			
37	1163	33.2	672	7	ABE6843	Abe6843 Human alp	XX			
38	1157.5	33.0	671	7	ADEP5666	Adep5666 Rat Prote	XX			
39	1157.5	33.0	671	7	ADD45528	Add4535 Rat Prote	XX			
40	1157.5	33.0	671	7	ADD45358	Add45358 Human Pro	XX			
41	1157.5	33.0	673	6	AAQ29576	Aaq29576 Human Pro	XX			
42	1157.5	33.0	918	3	AYV7084	Ayv7084 EGFP-PKCB	XX			
43	1157.5	33.0	672	5	ABB5702	Abb57022 Mouse lsc	XX			
44	1155	32.9	916	2	AAW55023	AAw55023 Amino aci	XX			

ALIGNMENTS

Novel nucleic acid sequence, which is an alternative splicing variant of tumor involved genes, useful for detecting cancer, predisposition to cancer, for evaluating cancer state and in gene therapy for treating cancer.

The invention discloses isolated human nucleic acid alternative splicing variants that are all tumor-involved genes (TIGs). The nucleic acids and polypeptides are useful for determining the level of a nucleic acid or polypeptide in a biological sample, for detecting a variant nucleic acid or polypeptide sequence in a biological sample, for determining the level

CC of variant nucleic acid or polypeptide sequences in a biological sample
 CC and for determining the ratio between the level of variant sequence in a
 CC first biological sample and the level of the original sequence from which
 CC the variant has been varied by alternative splicing in a second
 CC biological sample and for raising antibodies. A pharmaceutical
 CC composition comprising a carrier and the nucleic acid, is useful for
 CC treating diseases (e.g. cancer) that can be ameliorated, or cured by
 CC increasing or decreasing the level of the encoded protein. The nucleic
 CC acid is also useful for diagnostic purposes, especially for detecting
 CC cancer or a predisposition to cancer, for evaluating the state or
 CC aggressiveness of cancer disease, in basic research, for understanding
 CC the physiological function of the original TIG, in targeting or
 CC developing pharmaceuticals, for distinguishing various stages in the life
 CC cycle of the same type of cell, which may be helpful for the development
 CC of pharmaceuticals for various cancer stages in which cell cycle is non-
 CC normal, for determining mutations in tumour-involved genes and in gene
 CC therapy. The polypeptides are useful for identifying compounds capable of
 CC binding to the variant product and modulating its activity and for
 CC modulating endothelial differentiation and proliferation, as well as to
 CC modulate apoptosis either *ex vivo* or *in vivo*. The sequences presented in
 CC ABG79700-ABG79705 are the new variants (IV) 1-36 proteins of the TIGs
 CC disclosed

Sequence 648 AA;
 SQ

Query	Match	Score	DB	Length
Best Local Similarity	100.0%	3506	5	648
Matches	648;	Pred.	No. 0;	
Conservative	0;	Mismatches	0;	
		Indels	0;	
		Gaps	0;	
QY	1	MSPFLRIGLSNFGCGCSCQGAVAVNPGCAVLUVKKEYESENGOMYQKQKPTMPPDSTF	60	
Db	1	MSPFLRIGLSNFDGCGCSCQGAVAVNPGCAVLUVKKEYESENGOMYQKQKPTMPPDSTF	60	
QY	61	DAHINKGRMQLIIVKGKNDLISBTIVLVLISLAERCRKONGKTEIMWELKQGQRMILMAR	120	
Db	61	DAHINKGRMQLIIVKGKNDLISBTIVLVLISLAERCRKONGKTEIMWELKQGQRMILMAR	120	
QY	121	YFLEMSDTKMNEFETEGFALHORRGAIIQAKVHRYKTCHESTATEPPQPQPFCSVHEFV	180	
Db	121	YFLEMSDTKMNEFETEGFALHORRGAIIQAKVHRYKTCHESTATEPPQPQPFCSVHEFV	180	
QY	181	WGJLANKQGQOCRQCNAAIHKCCKDVKIAKCTGSAINSBTMFKERKIDMPHRKTYNK	240	
Db	181	WGJLANKQGQOCRQCNAAIHKCCKDVKIAKCTGSAINSBTMFKERKIDMPHRKTYNK	240	
QY	241	SPFCCHECCTTMLGARQGLKDACGMMVHHCQTKANLGINQKUMAELAMTESTQQ	300	
Db	241	SPFCCHECCTTMLGARQGLKDACGMMVHHCQTKANLGINQKUMAELAMTESTQQ	300	
QY	301	ARCLDFTQIIPRGPVEGLPSKINARPPCLPQSKPREGPQISHSRSPDDEVKCHLP	360	
Db	301	ARCLDFTQIIPRGPVEGLPSKINARPPCLPQSKPREGPQISHSRSPDDEVKCHLP	360	
QY	361	EPFLANKERSLQLKEDPFLHMKAGKSGFVKFLAEPKRKNQFAIKALKDVMDD	420	
Db	361	EPFLANKERSLQLKEDPFLHMKAGKSGFVKFLAEPKRKNQFAIKALKDVMDD	420	
QY	421	DVCTCTMVEKGRVSLAWHAPLTMFCFOTKENLFRVMEYINGGDMYHQSCKDLSR	480	
Db	421	DVCTCTMVEKGRVSLAWHAPLTMFCFOTKENLFRVMEYINGGDMYHQSCKDLSR	480	
QY	481	ATYFAAETLGLQFLPHRGIVVDRKDKNILDKDQKIKIADFGMCKENMIGDAKNTFC	540	
Db	481	ATYFAAETLGLQFLPHRGIVVDRKDKNILDKDQKIKIADFGMCKENMIGDAKNTFC	540	
QY	541	GTPDYIAPILLGQKYNHSVDMWSFGVLYEMIIGSPFHQDDEELHSIRMNDPFPYR	600	
Db	601	WLEKAKOLLVKURSEKSVFIRALGLVSLFLUSNLHANNDY	648	
QY	601	WLEKAKOLLVKURSEKSVFIRALGLVSLFLUSNLHANNDY	648	

RESULT 2
 ABG79678
 ID ABG79678 standard; protein; 615 AA.
 XX
 AC ABG79678;
 XX
 DT 15-NOV-2002 (first entry)
 DE Tumour involved gene (TIG) splice variant protein, NV-9.
 XX
 KW Human; splice variant; tumour-involved gene; TIG;
 pharmaceutical composition; cancer; diagnostic; tumour; gene therapy;
 endothelial cell; cell differentiation; cell proliferation; apoptosis;
 gene therapy.
 XX
 KW
 OS Homo sapiens.
 XX
 PN US2002086384-A1..
 XX
 PD 04-JUL-2002.
 XX
 PP 13-MAR-2001; 2001US-00805020.
 XX
 14-MAR-2000; 2000US-00175400.
 XX

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model.

Run on: March 25, 2004, 16:38:50 ; Search time 952 Seconds
(without alignments)
10508.935 Million cell updates/sec

Title: US-09-805-020-36
Perfect score: 2355

Sequence: 1 gatattccggcagccggca.....ctccaaacaaataaggga 2355

Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04:*

1: geneseqn1980s:*

2: geneseqn1950s:*

3: geneseqn2000s:*

4: geneseqn2001as:*

5: geneseqn2001bs:*

6: geneseqn2003as:*

7: geneseqn2003bs:*

8: geneseqn2003cs:*

9: geneseqn2004as:*

10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	2355	100.0	2355	6	AB65235	Abs65235 cDNA, enco
2	2331	99.0	2369	6	AB65208	Abs65208 cDNA, enco
3	1927.2	81.8	2754	4	Aaf59810	Aaf59810 Human pro
4	1927.2	81.8	2754	6	AB167085	Ab167085 Thyroid c
5	1927.2	81.8	2754	6	AC085477	AC085477 Human pro
6	1927.2	81.8	2754	9	ADD84903	Ade84903 Farmerly
7	1857.4	78.9	2705	3	Aaa35299	Aaa35299 Human ade
8	1857.4	78.9	2705	3	Aaf21421	Aaf21421 Human low
9	1857.4	78.9	2705	5	AAH42213	Aah42213 Nucleotide
10	1857.4	78.9	2705	7	ABz97115	Abz97115 Human nuc
11	1857.4	78.9	2705	7	ABz22924	Abz22924 Human pro
12	1857.4	78.9	38644	3	AAL35302	Aaa35302 Human ade
13	1857.4	78.9	38644	3	AAU21424	Aaf21424 Human low
14	1857.4	78.9	38644	7	ABz97118	Abz97118 Human nuc
15	1857.4	78.9	2650	5	AAM42214	Aah42214 Nucleotide
16	1836.4	78.0	2121	6	ABV78235	Abv78235 Human PKC
17	1836.4	78.0	2121	6	ABX35811	Abx35811 Human PKC
18	1836.4	78.0	2121	6	ABX1054	Abx1054 Human PKC
19	1836.4	78.0	2121	6	AB191776	Ab191776 Human pol
20	685.8	29.1	2909	2	AAQ01758	Aaq01758 cDNA sequ
21	685.8	29.1	2909	7	ABP1763	Abp1763 Toxicity
22	685.8	29.1	2909	9	ABP53627	Abp53627 Primary
23	682.6	29.0	2891	2	AAQ57016	Aaq57016 PKC delta

RESULT 1
ID ABS65235
XX ABS65235 standard; cDNA; 2355 BP.
AC ABS65235;
XX DT 15-NOV-2002 (first entry)
XX DB cDNA encoding tumour involved gene (TIG) splice variant, NV-36.
XX Human; ss; gene; Splice variant; tumour-involved gene; TIG; pharmaceutical composition; cancer; diagnostic; tumour; gene therapy; endotherelial cell; cell differentiation; cell proliferation; apoptosis; gene therapy.
XX OS Homo sapiens.
XX PN US2002066384-A1.
XX PD 04-JUL-2002.
XX PP 13-MAR-2001; 2001US-00805020.
XX PR 14-MAR-2000; 20001L-00135402.
PR 16-MAY-2000; 20001L-00136154.
XX PA (LENT/) LEVINE Z.
PA (DAV/) DAVID A.
PA (ROMA/) ROMANO C.
PA (BERN/) BERNSTEIN J.
XX PI Levine Z, David A, Romano C, Bernstein J;
XX DR WPI; 2002-635679/6B.
DR P-PSDB; ABG79705.

Novel nucleic acid sequence, which is an alternative splicing variant of tumor involved genes, useful for detecting cancer, predisposition to cancer, for evaluating cancer state and in gene therapy for treating cancer.

Claim 1; Page 64-65; 180pp; English.

The invention discloses isolated human nucleic acid alternative splicing variants that are all tumor-involved genes (TIGs). The nucleic acids and polypeptides are useful for determining the level of a nucleic acid or

Db	601	GCCCAATTGCTGTCCTCCAGAGTTGTCGGGCTGTGACAAACAGGGTACCA	660
Qy	661	GGCCGCAACTGCAATGCAAGGAACTTACAGAAAGCTATGATAAGTTAGGAAAGTG	720
Db	661	GGCCGCAACTGCAATGCAAGGAACTTACAGAAAGCTATGATAAGTTAGGAAAGTG	720
Qy	721	CACAGATCACTATGATGCCGAGAACATGTTCCAGAGGAGTTCAAAATGAA	780
Db	721	CACAGATCACTATGATGCCGAGAACATGTTCCAGAGGAGTTCAAAATGAA	780
Qy	781	CATGCCACACAGATTAAAGTACATTAAGAGGCCACCTCTGCAACACTTG	840
Db	781	CATGCCACACAGATTAAAGTACATTAAGAGGCCACCTCTGCAACACTTG	840
Qy	841	GACCTCTGCGGAGTGGACGGAGACTGAGTGTGATGAGTCAGTGTGAACTG	900
Db	841	GACCTCTGCGGAGTGGACGGAGACTGAGTGTGATGAGTCAGTGTGAACTG	900
Qy	901	GCATCATAGATGCCAGAACAGTGCACACCTTGGGATAACCGAGCTATGG	960
Db	901	GCATCATAGATGCCAGAACAGTGCACACCTTGGGATAACCGAGCTATGG	960
Qy	961	TCAAGGCTGCCATATTGAGACATCACAGCTCACAGGCGACCTTGTGAACTG	1020
Db	961	TCAAGGCTGCCATATTGAGACATCACAGCTCACAGGCGACCTTGTGAACTG	1020
Qy	1021	GATCTCAGAGAAAGTCCGGGTAATTTGGTCCCATCAAATGAGCAG	1080
Db	1021	GATCTCAGAGAAAGTCCGGGTAATTTGGTCCCATCAAATGAGCAG	1080
Qy	1081	GCCGCCATGTTACCCACCGGAAAGAGAGSCTCAGGCATTCCGGAGTC	1140
Db	1081	GCCGCCATGTTACCCACCGGAAAGAGAGSCTCAGGCATTCCGGAGTC	1140
Qy	1141	GTTGGTAGGTGGTAAATGTCGACATCTCCGACACTGAAAGAAGACC	1200
Db	1141	GTTGGTAGGTGGTAAATGTCGACATCTCCGACACTGAAAGAAGACC	1200
Qy	1201	ATCTCCGAGATAAAATGGAGTTTCTGCACAAATGTTGGGAAGG	1260
Db	1201	ATCTCCGAGATAAAATGGAGTTTCTGCACAAATGTTGGGAAGG	1260
Qy	1261	AAGTTGGCAGGTCTCTGGCAGAAATTCAAGAAACCAATCAATTGCRATAA	1320
Db	1261	AAGTTGGCAGGTCTCTGGCAGAAATTCAAGAAACCAATCAATTGCRATAA	1320
Qy	1321	GGCCTTAAGAAGATGTGGCTCTGAGATGAGCTTGAGGTTTGACAAATGTTGGGAAGG	1380
Db	1321	GGCCTTAAGAAGATGTGGCTCTGAGATGAGCTTGAGGTTTGACAAATGTTGGGAAGG	1380
Qy	1381	GAGAGTCTCTGGCCTGGAGACATCGTTGACCACATGTTGACATCCA	1440
Db	1381	GAGAGTCTCTGGCCTGGAGACATCGTTGACCACATGTTGACATCCA	1440
Qy	1441	GACCAAGAAACTCTTTTGTGTGAGTCTCAAGGGAGGACTTAATGACCA	1500
Db	1441	GACCAAGAAACTCTTTTGTGTGAGTCTCAAGGGAGGACTTAATGACCA	1500
Qy	1501	CATCCAAAGTGCACAAAGTGTGACCTTCCAGGGAGGTTATGCTGCTGAATCT	1560
Db	1501	CATCCAAAGTGCACAAAGTGTGACCTTCCAGGGAGGTTATGCTGCTGAATCT	1560
Qy	1561	TCTGGCTGCTCTCATTCATCAAGAAATGACTCTACGGGACTCTGAGCTAGATA	1620
Db	1561	TCTGGCTGCTCTCATTCATCAAGAAATGACTCTACGGGACTCTGAGCTAGATA	1620
Qy	1621	CATCCGTTAGACAAAGATGACATTCAGATGGGTTTGGATGCGAGGAGA	1680
Db	1621	CATCCGTTAGACAAAGATGACATTCAGATGGGTTTGGATGCGAGGAGA	1680
Qy	1681	CATGTTAGGAGTGCAGAACGAAACTCTGAGGACACTGAGCTGAGCTAATGCCCA	1740
Db	1681	CATGTTAGGAGTGCAGAACGAAACTCTGAGGACACTGAGCTGAGCTAATGCCCA	1740

GenCore version 5.1.6
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Score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw model

Run on: March 25, 2004, 17:56:26 ; Search time 9050 Seconds
 (without alignments)
 11278.767 Million cell updates/sec

Title: US-09-805-020-36
 Perfect score: 2355
 Sequence: 1 gaattccggcagccggca.....ctccaaacaaataaaggaga 2355

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : GenBank:
 1: gb_bat:
 2: gb_htg:
 3: gb_in:
 4: gb_om:
 5: gb_ov:
 6: gb_pat:
 7: gb_ph:
 8: gb_pi:
 9: gb_pr:
 10: gb_ro:
 11: gb_sts:
 12: gb_sy:
 13: gb_un:
 14: gb_vl:
 15: em_ba:
 16: em_fun:
 17: em_hum:
 18: em_in:
 19: em_mu:
 20: em_om:
 21: em_or:
 22: em_ov:
 23: em_pat:
 24: em_ph:
 25: em_p1:
 26: em_ro:
 27: em_sts:
 28: em_vl:
 29: em_un:
 30: em_htg hum:
 31: em_htg_inv:
 32: em_htg_other:
 33: em_htg_mus:
 34: em_htg_pln:
 35: em_htg_rod:
 36: em_htg_mam:
 37: em_htg_vrt:
 38: em_sy:
 39: em_htgo_hum:
 40: em_htgo_mus:
 41: em_htgo_other:

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1930.4	82.0	3292	6 AX780110	AX780110 Sequence
2	1927.2	81.8	2754	6 AR130752	AR130752 Sequence
3	1927.2	81.8	2754	6 AX33913	AX33913 Sequence
4	1927.2	81.8	2754	6 AX774806	AX774806 Sequence
5	1927.2	81.8	2754	9 HUMPKC	L01087 Human protein
6	1857.4	78.9	2705	9 AX481505	L07032 Human protein
7	1836.4	78.0	2121	6 HSM807803	AX41505 Sequence
8	1834.8	77.9	3370	9 HSM807803	AX417657 Homo sapiens
9	1474.5	62.6	3313	10 MUSPKCT	DI10911 Mouse mRNA
10	1813.8	34.6	2184	10 AB06122	AB061222 Mus musculus
11	743.6	31.6	2977	10 AF219629	AF219629 Rattus sp
12	712.6	30.2	2646	6 A37237	AB011812 Mus musculus
13	691	29.3	2538	10 MNPKCD	X60334 M.musculus
14	690	29.3	2564	10 MUSPKCD	M93042 Mouse protein
15	686.2	29.1	2693	9 AF211036	AB251036 Mus musculus
16	685.8	29.1	2909	6 E02147	E02147 Rat protein
17	685.8	29.1	2909	10 RATERKDA	AB261222 Mus musculus
18	684.2	29.1	2891	6 A37237	AB011812 Mus musculus
19	680.2	28.9	2059	5 AB105739	X60334 M.musculus
20	677.4	28.8	2100	5 AB105740	AB0109740 Xenopus laevis
21	673.6	28.6	2693	9 BC043350	BC043350 Homo sapiens
22	671.8	28.5	2104	9 HUMPKCD13X	AB0147 Rat protein
23	670.2	28.5	2104	6 AR133554	AB261222 Mus musculus
24	670.2	28.5	2104	6 BD262869	AB262869 Antisense
25	670.2	28.5	2104	6 AR380646	AB262869 Antisense
26	670.2	28.5	2104	6 AX771580	AX771580 Sequence
27	670.2	28.5	2104	6 AX779975	AX779975 Sequence
28	670.2	28.5	2104	9 HUMPKCD13X	AB0147 Rat protein
29	664.4	28.5	2104	6 AR133554	AB261222 Mus musculus
30	664.4	28.2	2031	12 AX335687	AX335687 Synthetic
31	634.2	26.9	2918	5 BC043327	AB262869 Antisense
32	632.4	26.9	2163	9 HUMPKCD	AB262869 Antisense
33	592	25.1	189767	9 AL137145	AL07861 Human protein
34	590.4	25.1	137072	9 AL35893	AX81499 Sequence
35	592	22.6	1848	9 AK130150	AK130150 Homo sapiens
36	498.2	21.2	2517	10 BC051416	BC051416 Mus musculus
37	389.4	16.5	3455	3 SRNPKCSR	Y13103 S.raphanus
38	389	16.5	3455	9 BC043327	BC043327 Danio rerio
39	376	16.0	2235	10 AF028009	DI0495 Homo sapiens
40	375	16.0	2707	6 AJ7235	AL137145 Human DNA
41	374.4	15.9	2214	10 AF325507	AL235893 Homo sapiens
42	374.4	15.9	2274	6 AR282728	AK130150 Homo sapiens
43	374.2	15.9	2244	6 AR282728	BC051416 Mus musculus
44	372.8	15.8	2704	6 E02148	Y13103 S.raphanus
45	372.8	15.8	2704	10 RATPKC	AF028009 Mus musculus

ALIGNMENTS

ORGANISM	RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE
Homo sapiens	RESULT 1	AX780110	Sequence 2267 from Patent WO0339443.				
			3292 bp DNA				linear
							PAT 14-JUL-2003

Pred. No. is the number of results predicted by chance to have a

